

What Is Claimed Is:

1 1. A location system, comprising:
2 an area agent, comprising a presence application;
3 a presence server, collecting location awareness
4 information supporting the presence application; and
5 a local area server, returning location information in
6 response to a request from the area agent;
7 wherein the area agent generates the location awareness
8 information according to the location information
9 obtained from the local area server.

1 2. The location awareness system according to claim 1,
2 wherein the request sent from the area agent comprises an area
3 tag, according to which, the local area server seeks the location
4 information.

1 3. The location awareness system according to claim 1,
2 wherein the area agent directly submits the location awareness
3 information to the presence server.

1 4. The location awareness system according to claim 1,
2 further comprises a relay forwarding and managing information
3 exchange between the area agent and the local area server.

1 5. The location awareness system according to claim 4,
2 wherein the relay downloads location information from the local
3 area server for periodic update.

1 6. The location awareness system according to claim 4,
2 wherein the relay retrieves the location awareness information
3 from the area agent for submission to the local area server,

4 which then transfers the location awareness information to the
5 presence server.

1 7. The location awareness system according to claim 1,
2 further comprises an authentication server assigning an
3 authentication code to the area agent.

1 8. The location awareness system according to claim 7,
2 wherein the request sent from the area agent comprises the
3 authentication code, and the local area server returns location
4 information according to the authentication code.

1 9. The location awareness system according to claim 7,
2 wherein the authentication server further comprises a relay for
3 forwarding and managing information exchange between the area
4 agent and the local area server.

1 10. The location awareness system according to claim 9,
2 wherein the relay collects the location awareness information
3 from the area agent for submission to the local area server,
4 which then publishes the location awareness information to the
5 presence server.

1 11. A location awareness method for operating a presence
2 application in an area agent, comprising the steps of:
3 acquiring an area tag;
4 requesting location information from a local area server
5 by sending the area tag;
6 obtaining the location information from the local area
7 server;
8 generating location awareness information accordingly;
9 and

10 submitting the location awareness information.

1 12. The location awareness method according to claim 11,
2 wherein the location awareness information is directly
3 submitted to a presence server.

1 13. The location awareness method according to claim 11,
2 wherein the location awareness information is submitted to a
3 relay for transmission to the local area server.

1 14. The location awareness method according to claim 11,
2 wherein the location awareness information is submitted to the
3 local area server.

1 15. The location awareness method according to claim 11,
2 further comprises acquiring an authentication code from a
3 authentication server and sending the authentication code
4 together with the area tag to the local area server to obtain
5 the location information.